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**Attorney Docket No.: SAMMUT - 07597** 

## IN THE CLAIMS

Claims 1-44 (canceled)

- 45. (currently amended) A ballistics calculator system for computing targeting information to hit a target, comprising a processor, said processor comprising: a ballistics computer program for analyzing information to accurately aim a firearm at a target using a target acquisition device with a reticle, said program using information regarding the target acquisition device and reticle being used, wherein said type of target acquisition device and reticle comprises:
  - a) a reticle, comprising:
    - a plurality of simultaneously visible secondary horizontal crosshairs intersecting at predetermined distances a simultaneously visible primary vertical cross-hair wherein said primary vertical cross hair and said secondary horizontal cross-hairs are selected from the group consisting of etched cross-hairs, engraved cross-hairs, and printed crosshairs; and
    - 2) a plurality of simultaneously visible secondary vertical cross-hairs intersecting at predetermined distances at least some of said secondary horizontal cross-hairs wherein said secondary vertical cross-hairs are selected from the group consisting of etched cross-hairs, engraved cross-hairs, and printed cross-hairs; and
  - b) an output using an intersection of a least one of said secondary horizontal cross-hairs and at least one of said secondary vertical cross-hairs to identify an aiming point for hitting the target.
- 46. (previously presented) The ballistics calculator system of claim 45, wherein said reticle further comprises a simultaneously visible primary vertical cross-hair and a simultaneously visible primary horizontal cross-hair.
- 47. (previously presented) The ballistics calculator system of claim 46, wherein said

primary vertical and horizontal cross-hairs intersect at the optical center of the said reticle.

- 48. (withdrawn) The ballistics calculator system claim 46, wherein said primary vertical and horizontal cross-hairs intersect above the optical center of said reticle.
- 49. (withdrawn) The ballistics calculator system of claim 46, wherein said primary vertical and horizontal cross-hairs intersect below the optical center of said reticle.
- 50. (previously presented) The ballistics calculator system of claim 45, wherein at least some of said secondary horizontal cross-hairs are evenly spaced.
- 51. (previously presented) The ballistics calculator system of claim 45, wherein at least some of said secondary vertical cross-hairs are evenly spaced.
- 52. (previously presented) The ballistics calculator system of claim 45, wherein at least some of said secondary horizontal and vertical cross-hairs have identifying marks.
- 53. (previously presented) The ballistics calculator system of claim 45, wherein said vertical and horizontal cross-hairs are connected to form a grid.
- 54. (previously presented) The ballistics calculator system of claim 45, wherein said reticle includes range finding markings on said reticle.
- 55. (withdrawn) The ballistics calculator system of claim 45, wherein said information to accurately aim a firearm at a target further comprises information regarding external conditions.
- 56. (withdrawn) The ballistics calculator system of 55, wherein said information regarding external conditions is selected from one or more of date, time, temperature, barometric pressure, relative humidity, target image resolution, wind-speed, wind

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direction, hemisphere, latitude, longitude and altitude.

- 57. (withdrawn) The ballistics calculator system of claim 55, wherein at least some of said information regarding external conditions is input to the program using an automated measuring device operably linked to the said processor.
- 58. (withdrawn) The ballistics calculator system of claim 45, wherein said information to accurately aim a firearm at a target further comprises information regarding the firearm being used.
- 59. (withdrawn) The ballistics calculator system of claim 58, wherein said information regarding the firearm being used is selected from one or more of the rate and direction of the barrel twist, barrel length, internal barrel caliber and internal barrel diameter.
- 60. (withdrawn) The ballistics calculator system of claim 58, wherein said ballistics computer program includes automatic input of firearm information by selecting stored rate and direction of barrel twist, barrel length, internal barrel caliber, and internal barrel diameter.
- 61. (withdrawn) The ballistics calculator system of claim 45, wherein said information to accurately aim a firearm at a target further comprises information regarding the projectile being used.
- 62. (withdrawn) The ballistics calculator system of claim 61, wherein said information regarding the projectile being used is selected from one or more of projectile weight, projectile caliber, projectile configuration, propellant type, propellant amount, propellant potential force, powder, primer, one or more ballistic coefficients of the projectile, and the muzzle velocity of the projectile.
- 63. (withdrawn) The ballistics calculator system of claim 61, wherein said ballistics

computer program includes automatic input of projectile information by selecting stored projectile information.

- 64. (withdrawn) The ballistics calculator system of claim 45, wherein said information to accurately aim a firearm at a target further comprises information regarding the shooter.
- 65. (withdrawn) The ballistics calculator system of claim 64, wherein said information regarding the shooter is selected from one or more of the shooter's heart rate and rhythm, visual acuity, visual idiosyncrasies, respiratory rate, blood oxygen saturation, muscle activity, brain wave activity, and number and positional coordinates of spotters assisting the shooter.
- 66. (withdrawn) The ballistics calculator system of claim 45, wherein said information to accurately aim a firearm at a target further comprises information regarding the relation of the shooter and the target.
- 67. (withdrawn) The ballistics calculator system of claim 66, wherein said information regarding the relation between the shooter and target is selected from one or more of the distance between the shooter and target, the speed and direction of movement of the target relative to the shooter, the angle formed between the barrel and an axis perpendicular to the force of gravity, and the direction of fire from true North.
- 68. (withdrawn) The ballistics calculator system of claim 67, wherein said distance between the shooter and the target is less than 100 yards.
- 69. (withdrawn) The ballistics calculator system of 67, wherein said distance between the shooter and target is greater than 100 yards.
- 70. (withdrawn) The ballistics calculator system of claim 67, wherein said distance between the shooter and target is greater than 500 yards.

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71. (withdrawn) The ballistics calculator system of claim 67, wherein said distance between the shooter and target is greater than 1000 yards.

- 72. (withdrawn) The ballistics calculator system of claim 67, wherein said distance between the shooter and target is greater than 1500 yards.
- 73. (previously presented) The ballistics calculator system of claim 45, wherein said information regarding the target acquisition device and reticle being used is selected from one or more of types of reticles, power of magnification, plane of function, the positional relationship between the target acquisition device and the firearm, and the range at which said target acquisition device was zeroed using said firearm and said projectile.
- 74. (previously presented) The ballistics calculator system of claim 45, wherein said target acquisition device reticle comprises an aiming point at an intersection of a simultaneously visible secondary vertical cross-hair and a simultaneously visible secondary horizontal cross-hair, wherein said ballistics calculator system further provides an output of the number of clicks an elevation knob and a windage knob should be turned to adjust a position of said target acquisition device relative to a firearm such that an intersection of said secondary vertical cross-hair and said secondary horizontal cross-hair can be used as the aiming point for striking said target.
- 75. (previously presented) The ballistics calculator system of claim 45, wherein said target acquisition device comprises:
  - a) a housing; and
  - b) a means for mounting said housing in a fixed, predetermined position relative to a firearm.
- 76. (previously presented) The ballistics calculator system of claim 75, wherein said target acquisition device further comprises an objective lens mounted in one end of said housing.

- 77. (previously presented) The ballistics calculator system of claim 75, wherein said target acquisition device further comprises an ocular lens mounted in the end opposite the objective lens of said housing.
- 78. (previously presented) The ballistics calculator system of claim 75, wherein said target acquisition device further comprises a projected image.
- 79. (previously presented) The ballistics calculator system of claim 45, wherein said processor is further configured to display information on a display screen.
- 80. (previously presented) The ballistics calculator system of claim 79, wherein the information displayed is an image of a reticle on said display screen showing a position of said aiming point.
- 81. (withdrawn) The ballistics calculator system of claim 79, wherein the information displayed is a projected image on a reticle showing a position of said aiming point.
- 82. (withdrawn) The ballistics calculator system of claim 79, wherein the information displayed is a virtual image on a reticle showing a position of said aiming point.
- 83. (withdrawn) A method for using the ballistics calculator system of claim 45, comprising:
  - a) inputting information regarding the target acquisition device and reticle being used; and
  - b) selecting one or more aiming points on said ballistics calculator system.
- 84. (previously presented) The ballistics calculator system of claim 45, wherein said reticle is configured in a first focal plane.
- 85. (withdrawn) The ballistics calculator system of claim 45, wherein said reticle is

configured in the second focal plane.

- 86. (withdrawn) The ballistics calculator system of claim 45, wherein said reticle is configured in a combination of the first focal plane and the second focal plane.
- 87. (withdrawn) The ballistics calculator system of claim 45, wherein said reticle is configured in a fixed power target acquisition device.